

t72_borsuk_5
(TMN11G9xnN69AHPzC9XSZ6fyiui175PZBZC)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k3_topmetr : \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k3_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 X0)) \Rightarrow (((r1_tarski X1 X2) \wedge (r1_tarski X1 (k3_subset_1 X0 X2))) \Rightarrow (X1 = k1_xboole_0)) \quad (2)$$

Assume the following.

$$u1_struct_0 k3_topmetr = k1_numbers \quad (3)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \Rightarrow (m1_subset_1 X0 (k1_zfmisc_1 X1)) \quad (5)$$

Theorem 1

$$\forall X0. (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 k3_topmetr))) \Rightarrow ((k1_numbers = k3_subset_1 (u1_struct_0 k3_topmetr) X0) \Rightarrow (X0 = k1_xboole_0))$$